

## Aluminium Electrolytic Capacitor

<b>Product Family Name</b>	Radial	Panasonic ECEA**KA / ECEA**KS(KK) / ECA**M / EEA(EEU)GA / EEUFC / EEUFK / ECA**HG / EEUEB / EEUED / EEUTA
<b>Date</b>	03.01.2003	
<b>Version</b>	<b>01</b>	

Construction Element	Material group	Materials	CAS if applicable	min	typical mass [wt-%]	max	Sum [%]	Traces	
Active Part	Metals	Al (foil)	7429-90-5	8,1	25,8	36,3	50,1		
	Liquids	Ethylene Glycol	25322-68-3	0,8	17,2	29,2			
		Gamma Butyrolacton	96-48-0						
	Other Materials	Paper		2,6	7,1	12,6			
Encapsulation (Cover Disk)	Metals	Al (case)	7429-90-5	14,1	21,0	29,8	40,2		
	Other Materials	Rubber		8,8	15,1	29,3			
	Plastics	PVC / PET		2,2	4,1	7,5			
		(Including about 0,04 - 0,15 % per part weight lead compound as additives in PVC)							
Termination	Metals	Fe (Sn coated) wires	7439-89-6	1,4	9,7	45,1	9,7		
							Sum in total:	100	

Case sizes and weight range:

Diameter x L [mm]	Weight [g]	Diameter x L [mm]	Weight [g]	Diameter x L [mm]	Weight [g]	Diameter x L [mm]	Weight [g]
3 x 5	0.11	5 x 11	0.44	10 x 25	2.98	16 x 25	6,91
4 x 5	0.18	5 x 15	0.54	10 x 30	3.78	16 x 31,5	9,96
5 x 5	0.23	6,3 x 11,2	0.65	12,5 x 15	2.87	16 x 35	10,55
6,3 x 5	0.34	6,3 x 15	0.82	12,5 x 20	3.93	16 x 40	11,68
8 x 5	0.51	8 x 11,5	1.08	12,5 x 25	4.72	18 x 15	5,89
4 x 7	0.21	8 x 15	1.36	12,5 x 30	5.65	18 x 20	7,58
5 x 7	0.29	8 x 20	1.77	12,5 x 35	6.83	18 x 25	9,40
6,3 x 7	0.41	10 x 12,5	1.61	12,5 x 40	7.73	18 x 31,5	12,40
8 x 7	0.63	10 x 16	2.01	16 x 15	4.74	18 x 35,5	13,86
4 x 11	0.29	10 x 20	2.56	16 x 20	6.11	18 x 40	15,41

Not part of package family

<b>Company</b>	Panasonic	<b>Important remarks:</b> 1) Traces are product parts, substances etc. that are below a percentage of 0.1 % by weight. Higher limits are accepted if the substance or material is legally regulated (see note no. 2). 2) A list of the (legal) "... restrictions on substances ..." or materials is available at internet address: <a href="http://www.eicta.org/Content/Default.asp?PageID=211">http://www.eicta.org/Content/Default.asp?PageID=211</a> . 3) Substances, materials etc. with possible harmful effects on human beings and the environment are listed. 4) There are no risks for human beings and to the environment if products are properly used as designated. This shall not apply to risks caused during procedures for disposal etc. 5) All statements herein are based on our present knowledge. If our products are used properly, there are no risks to human beings and/or the environment.